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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,040	04/05/2001	Philippe Pantigny	034299-327	3786
7590 03/02/2004			EXAM	INER
Robert E. Krebs			NGUYEN, TU T	
Thelen Reid & I	PRiest LLP			
P.O. Box 640640			ART UNIT	PAPER NUMBER
San Jose, CA 95164-0640			2877	

DATE MAILED: 03/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				1412			
		Application No.	Applicant(s)	-118			
Office Action Summary		09/826,040	PANTIGNY ET AI	L.			
		Examiner	Art Unit				
		Tu T. Nguyen	2877				
The MAILING Period for Reply	DATE of this communication	appears on the cover s	sheet with the correspondence ac	idress			
THE MAILING DATI - Extensions of time may be after SIX (6) MONTHS from the period for reply specified. If NO period for reply is specified from the period for reply within the Any reply received by the	ecified above, the maximum statutory pe	DN. R 1.136(a). In no event, howevent. In a reply within the statutory minimeriod will apply and will expire Statute, cause the application to be	er, may a reply be timely filed num of thirty (30) days will be considered time X (6) MONTHS from the mailing date of this of Decome ABANDONED (35 U.S.C. § 133).	∮y. :ommunication.			
Status							
1) Responsive to	communication(s) filed on _	·					
2a) This action is	FINAL. 2b)	This action is non-final					
3) Since this app	lication is in condition for all	owance except for form	nal matters, prosecution as to the	e merits is			
closed in acco	rdance with the practice und	ler <i>Ex parte Quayl</i> e, 19	935 C.D. 11, 453 O.G. 213.				
Disposition of Claims							
4)⊠ Claim(s) <u>1-9</u> is	/are pending in the applicati	on.					
4a) Of the abo	ve claim(s) is/are with	drawn from considerat	tion.				
5) Claim(s)	_ is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is							
8) Claim(s)	_ are subject to restriction ar	nd/or election requirem	ient.				
Application Papers							
, ,	on is objected to by the Exar						
10)⊠ The drawing(s	☑ The drawing(s) filed on <u>05 April 2001</u> is/are: a) accepted or b) ☑ objected to by the Examiner.						
''	,	. .	n abeyance. See 37 CFR 1.85(a).				
•	• , ,		drawing(s) is objected to. See 37 C				
11)∐ The oath or de	claration is objected to by th	e Examiner. Note the a	attached Office Action or form P	10-152.			
Priority under 35 U.S.0	c. § 119						
a)⊠ All b)□ S 1.⊠ Certified 2.□ Certified 3.□ Copies		nents have been receiv nents have been receiv priority documents hav	ved. ved in Application No ve been received in this National	l Stage			
* See the attache	d detailed Office action for a	list of the certified cop	pies not received.				
Attachment(s)	•						
1) Notice of References C	ited (PTO-892)	4) 🔲 Ir	nterview Summary (PTO-413)				
	s Patent Drawing Review (PTO-948 Statement(s) (PTO-1449 or PTO/St	_B /08) 5) □ N	aper No(s)/Mail Date Notice of Informal Patent Application (PT) Other:	O-152)			

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DETAILED ACTION

Drawings

Figures 1-3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

For this application, the abstract is more than 150 words and the same as claim

<u>1.</u>

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5,7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pantigny et al (5,742,058).

With respect to claim 1, Pantigny discloses a matrix readout system. The system comprises: a matrix of detectors DET(i,j) (fig 4a) connected through at least a bus BCj (fig 4a) and converted into a voltage (fig 4b); an impedance matching device (column 4, lines 40-45) and a method for determining the variation of charge (column 6, lines 1-30).

Pantigny discloses a method for determining the variation of charge (column 6, lines 1-30). However, Pantigny does not disclose the method for determining the variation of charge as claimed in claim 1. However, it would have been obvious a design choice to modify Pantigny with different method of determining the variation of charge for different system setups or different environments.

With respect to claim 2, Pantigny discloses a low out put capacitor CPEL (fig 1a).

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With respect to claims 3,7, it would have been obvious a design choice to connect the impedance matching device as close as possible to the input of the integrator to reduce the system noise.

With respect to claims 4-5,8-9, Pantigny does not disclose a common-gate TMOS transistor or a feedback amplifier. However, the claimed elements would have been known. It would have been obvious to modify Pantigny's system with the known elements to reduce the system cost.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pantigny et al (5,742,058) in view of Yoshio (Patent Abstract of Japan, EP 62292081).

With respect to claim 6, Pantigny does not disclose a current mirror. Yoshio disclose an image sensor with a current mirror circuit 24. it would have been obvious to modify Pantigny with the current mirror circuit of Yoshio to make the system more efficiency.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu T. Nguyen whose telephone number is (571) 272-2424. The examiner can normally be reached on T-F 7:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tu T. Nguyen Primary Examiner Art Unit 2877

Jinguyen

02/19/2004